

10/585259

RJP/cms 6565-76130-01 06/29/06 93231-133

AP20 Rec'd PCT/PTO 30 JUN 2006
EXPRESS MAIL LABEL NO. EV 68293731 US
DATE OF DEPOSIT: June 30, 2006

POLYMER HAVING INTERCONNECTED PORES FOR
DRUG DELIVERY AND METHOD

ABSTRACT OF THE DISCLOSURE

- 5 A bicontinuous microemulsion of water, a monomer, and a surfactant
copolymerizable with the monomer is polymerized to form a transparent and porous
polymer defining interconnected pores. The pores may have a pore diameter in the
range of 10 to 100 mm. The microemulsion may further include a drug such that, when
the polymer is formed, the drug is dispersed in one or both of the polymer and the pores
10 and is releasable therefrom when the polymer is in contact with a liquid. The drug may
be an ophthalmic drug and the polymer can be used to form drug delivery devices, such as
contact lenses and artificial corneas.